

Docket No: CHITTIPEDDI 59-108

Approved for use through 10/31/2002; OMB 0551-0031
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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Agere Systems Inc.

Application No./Patent No.: 09/467,253 Filed/Issue Date: December 20, 1999
Entitled: WIRE BONDING METHOD FOR COPPER INTERCONNECTS IN SEMICONDUCTOR DEVICES

Agere Systems Inc. a corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

Address: 555 Union Boulevard, Allentown, PA 18109

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Inventor(s) To: Lucent Technologies Inc.
The document was recorded in the United States Patent and Trademark Office at Reel 010607, Frame 0189, or for which a copy thereof is attached.
2. From: Lucent Technologies Inc. To: Agere Systems Guardian Corp.
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: Agere Systems Guardian Corp. To: Agere Systems Inc.
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

November 14, 2002

Date

Charles W. Gaines

Typed or printed name

Signature

Attorney for Applicant

Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

JUNE 28, 2000

DARBY & DARBY P.C.
YA-CHIAO CHANG
805 THIRD AVENUE
27TH FLOOR
NEW YORK, NY 10022-7513



PTAS



1298/36874450
UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231



101363143A

CORRECTED NOTICE

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/13/2000

REEL/FRAME: 010607/0189
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
CHITTIPEDDI, SAILESH

DOC DATE: 03/07/2000

ASSIGNOR:
MERCHANT, SAILESH M.

DOC DATE: 02/29/2000

ASSIGNEE:
LUCENT TECHNOLOGIES INC.
600 MOUNTAIN AVENUE
MURRAY HILL, NEW JERSEY 07974-0636

SERIAL NUMBER: 09467253
PATENT NUMBER:

FILING DATE: 12/20/1999
ISSUE DATE:

DOROTHY RILEY, PARALEGAL
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



To the Honorable Commissioner of Patents and Trad

101363143

ments or copy thereof.

1. Name of conveying party(ies): Sailesh CHITTIPEDDI
and Sailesh Mansinh MERCHANT

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

Execution Date: 2/29/00 & 3/7/00

2. Name and address of receiving party(ies):

Name: Lucent Technologies Inc.

Address: 600 Mountain Avenue
Murray Hill, NJ 07974-0636



4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) 09/467,253

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No

5. Name and address of party to whom correspondence
concerning document should be mailed:

Name: Darby & Darby P.C.

Internal Address:

Street Address: 805 Third Avenue, 27th Floor

City: New York State: New York Zip: 10022-7513

6. Total number of applications and patents
involved:

1

7. Total fee (37 CFR 3.41):.....\$

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number:

Lucent Technologies deposit account 12-2325

(Attach duplicate copy of this page if paying by deposit account)

03/15/2000 TTRM1 00000095 122325 09467253
01 FC:581 40.00 CH

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Ya-Chiao Chang

Name of Person Signing

Signature

March 9, 2000

Date

Total number of pages including cover sheet, attachments, and document:

4

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments, Washington, D.C. 20231

ASSIGNMENT AND AGREEMENT

For value received, I/We, Sailesh CHITTIPEDDI, residing at 308 Lenape Trail, Allentown, PA 18104, and Sailesh Mansinh MERCHANT residing at 8214 Vineland Oaks Boulevard, Orlando, FL 32835, hereby sell, assign and transfer to Lucent Technologies Inc., a corporation of the State of Delaware, having an office at 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **WIRE BONDING METHOD FOR COPPER INTERCONNECTS IN SEMICONDUCTOR DEVICES** described in an application for Letters Patent of the United States, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and I also concurrently hereby sell, assign and transfer to Lucent Technologies Inc. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

I/We authorize Lucent Technologies Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from me, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

I/We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Lucent Technologies Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

I/We request that any and all patents for said inventions be issued to Lucent Technologies Inc. in the United States and in all countries foreign to the United States, or to such nominees as Lucent Technologies Inc. they may designate.

Case Name and No.
IDS 117143 (Chittipeddi 59-108)
1298/0F374

I/We agree that, when requested, I/we shall, without charge to Lucent Technologies Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.


Sailesh Chittipeddi

Date: 3/7/00

United States of America)

State of Pennsylvania) ss.:

County Lehigh)
City of Bellevue

On this 7th day of March, MED 19 2000, before me personally came Sailesh Chittipeddi, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

Notarial Seal
Mary Ellen Dobish, Notary Public
Allentown, Lehigh County
My Commission Expires Nov. 6, 2002
Member, Pennsylvania Association of Notaries


Sailesh Mansinh Merchant

Date: 29 Feb '00

United States of America)

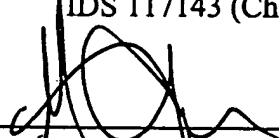
State of Florida) ss.: 309.52.1220

City of Orlando)

On this 29th day of February, 2000, before me personally came Sailesh Mansinh Merchant, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Case Name and No.
IDS 117143 (Chittipeddi 59-108)
1298/0F374


Notary Public

Lucent Technologies Inc.
600 Mountain Avenue (Room 3C-512)
P. O. Box 636
Murray Hill, New Jersey 07974-0636

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EXECUTION COPY

PATENT ASSIGNMENT

by and between

LUCENT TECHNOLOGIES INC.

and

AGERE SYSTEMS GUARDIAN CORP.

Dated as of January 30, 2001

PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (this "Assignment"), effective as of January 30, 2001 (the "Effective Date"), is by and between Lucent Technologies Inc., a Delaware corporation, with offices at 600 Mountain Avenue, Murray Hill, New Jersey 07974, United States of America, ("ASSIGNOR") and Agere Systems Guardian Corp., a Delaware corporation, with offices at 555 Union Boulevard, Allentown, PA 18109, United States of America ("Agere Systems Guardian").

RECITALS

A. WHEREAS, the Board of Directors of ASSIGNOR has determined that it is in the best interests of ASSIGNOR and its stockholders to separate ASSIGNOR's existing businesses into two independent businesses;

B. WHEREAS, ASSIGNOR presently owns or controls certain patents, patent applications, and invention submissions listed in the attached Appendices A and B (hereinafter "TRANSFERRED PATENTS") and;

C. WHEREAS, in furtherance of the foregoing separation, ASSIGNOR desires to transfer, assign, convey, deliver and vest all of its interests and rights in TRANSFERRED PATENTS for all countries, jurisdictions and political entities of the world, to and in Agere Systems Guardian;

NOW, THEREFORE, in consideration of the premises and for other good and valid consideration, the receipt and sufficiency of which are hereby acknowledged, the parties, intending to be legally bound, agree as follows:

ASSIGNOR, subject to existing rights and licenses of third parties, does hereby assign, convey, transfer and deliver, and agrees to assign, convey, transfer and deliver to Agere Systems Guardian, its successors, assigns and legal representatives or nominees, ASSIGNOR's entire right, title and interest, for all countries, jurisdictions and political entities of the world, along with the right to sue for past infringement, to all TRANSFERRED PATENTS listed on Appendices A and B, and corresponding counterpart foreign patents and patent applications, with respect to which, and to the extent to which, ASSIGNOR now has or hereafter acquires the right to so assign, convey, transfer and deliver. Agere Systems Guardian recognizes that ASSIGNOR holds only bare legal title to the TRANSFERRED PATENTS listed in Appendix A (which lists the United States Patents and patent applications previously exclusively licensed to Lucent Technologies Microelectronics Guardian Corp.).

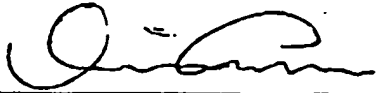
ASSIGNOR and ASSIGNEE recognize that the patents listed in Appendices A and B may inadvertently include patents that are owned by various subsidiaries of ASSIGNOR, including Agere, Inc., Ortel Corporation, Optimay Corporation, Herrmann Technology, Inc., and Enable Semiconductor, Inc. Ownership of such patents shall not be affected by this Patent

Assignment, and ASSIGNEE agrees that any such patents shall be deemed deleted from Appendices A and B.

ASSIGNOR agrees that, upon request it will, at any time without charge to Agere Systems Guardian, but at Agere Systems Guardian's expense, furnish all necessary documentation relating to or supporting chain of title, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for vesting title to TRANSFERRED PATENTS in Agere Systems Guardian, its successors, assigns and legal representatives or nominees; including but not limited to any acts which may be necessary, desirable or convenient for claiming said rights and for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in Agere Systems Guardian and its respective successors, assigns and legal representatives or nominees.

IN WITNESS WHEREOF, the parties have caused this PATENT ASSIGNMENT to be executed by their duly authorized representatives as of the Effective Date:

LUCENT TECHNOLOGIES INC.

By: 
Daniel P. McCurdy
President, Intellectual Property Business

AGERE SYSTEMS GUARDIAN CORP.

By: 
Fred M. Romano
President



Execution Copy
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NOV 25 2002
TECHNOLOGY CENTER 2800

ACKNOWLEDGMENTS

STATE OF NEW JERSEY)
: SS:
COUNTY OF SOMERSET)

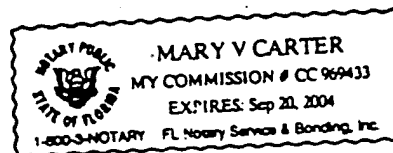
I CERTIFY that on January 30, 2001, Daniel P. McCurdy personally came before me and this person acknowledged under oath, to my satisfaction that:
a.) this person signed, sealed and delivered the attached Patent Assignment as President - Intellectual Property Business of Lucent Technologies Inc.; and
b.) this Patent Assignment was signed and made by Lucent Technologies Inc. as its voluntary act and deed by virtue of authority from its Board of Directors.

Name TAMORA ANNE HANNA
Notary Public Notary Public of New Jersey
My Commission Expires Registered in Hunterdon County
[Notarial Seal] My Commission Expires March 25, 2002

STATE OF FLORIDA)
: SS:
COUNTY OF ORANGE)

I CERTIFY that on January 31, 2001, Fred M. Romano personally came before me and this person acknowledged under oath, to my satisfaction that:
a.) this person signed, sealed and delivered the attached Patent Assignment as Vice President of Agere Systems Guardian Corp. ; and
b.) this Patent Assignment was signed and made by Agere Systems Guardian Corp. as its voluntary act and deed by virtue of authority from its Board of Directors.

Name
Notary Public
My Commission Expires:
[Notarial Seal]



APPENDIX B (continued)
Transferred Patents

Case Name	Filing Date	Issue Date	Patent No.	Serial No.
Chetlur 16-150-3	2/16/2000			60/182966
Chetlur 2-1-3	7/23/1998		09/121216	
Chetlur 4-4-65-1-1	8/23/1999			09/378856
Chetlur 5-34-5-33-1-66	8/11/1999			09/372271
Chetlur 6-10-63-84-10	7/30/1999			09/364767
Chetlur 8-5-96-3-2	8/23/1999			09/379055
Cheung 1-2-1-1-33-2	10/11/1999			60/158874
Cheung 6	5/24/1999			09/317430
Cheung 7-1	4/28/2000			09/560935
Chew 7-11-5-49-8	3/20/2000			09/528753
Chin 1-7-3	6/17/1993		08/079310	
Chittipeddi 22	11/30/1994		08/347527	
Chittipeddi 24-6	10/26/1994		08/329806	
Chittipeddi 30-9	12/22/1995	6/20/2000	6078035	
Chittipeddi 34-10-10	1/16/1996		08/587061	
Chittipeddi 42-19	4/10/1997		08/889934	
Chittipeddi 47-8	8/26/1998	6/27/2000	6080625	
Chittipeddi 48-36	8/26/1998		09/140270	
Chittipeddi 49-9	8/26/1998		09/140276	
Chittipeddi 50-10	9/28/1998	7/11/2000	09/162247	6087732
Chittipeddi 51-10	4/22/1999			09/298068
Chittipeddi 54-44	1/23/1999			09/236406
Chittipeddi 55-23-14	4/8/1999			09/288746
Chittipeddi 56-16	2/26/1999			09/259001
Chittipeddi 57-11	5/5/1999			09/305766
Chittipeddi 59-108	12/20/1999			09/467253
Chittipeddi 60-26-15	12/16/1999			09/465089
Chittipeddi 61-113	8/30/1999			09/386065
Chittipeddi 62-114	8/30/1999			09/385165
Chittipeddi 63	11/18/1999			09/442688
Chittipeddi 66-27-16	12/16/1999			09/465075
Chittipeddi 67-27-19	1/6/2000			09/479288
Chittipeddi 69-130-145	1/21/2000			09/488810
Chittipeddi 70-13	2/15/2000			09/503814
Chittipeddi 71-53-154	4/4/2000			09/542763
Chittipeddi 72-20-3	6/2/2000			09/586384
Chittipeddi 73-29-155	4/25/2000			09/557536
Chittipeddi 75-11	7/7/2000			09/611907
Chittipeddi 78-17	7/17/2000			09/617687
Chittipeddi 79	6/16/2000			09/596382
Chittipeddi 80	6/16/2000			09/595642
Chittipeddi 81-134-160	6/29/2000			09/606833
Chittipeddi 82	8/11/2000		09/636447	
Chittipeddi 83-28-19	8/31/2000		09/652571	
Chiussi 10-3	2/9/1999			09/247779
Chiussi 11-4	2/9/1999			09/247742
Chiussi 12-1	5/14/1999			09/312253
Chiussi 13-2	5/14/1999			09/312268
Chiussi 14-4-1	11/6/1998			09/187141
Chiussi 15-5	11/3/1999			09/432976
Chiussi 16-5-2	11/4/1999			09/434031
Chiussi 17-6-3	3/19/1999			09/273017
Chiussi 18-6-3	6/2/2000			09/587149
Chiussi 19-7	6/22/2000			09/599250
Chiussi 20-8	6/2/2000			60/208755
Chiussi 9-2-15	10/30/1998			09/182884
Chlipala 6-14-18-4	5/30/2000			09/583115
Chodnekar 1-24-10-8-4-10	9/29/1999			09/407857
Chodnekar 2-9	6/23/2000			09/602556
Choi 1	9/10/1998		09/150529	

CERTIFICATE OF OWNERSHIP AND MERGER

OF

Agere Systems Guardian Corp.
(a Delaware corporation)

INTO

Agere Systems Inc.
(a Delaware corporation)

**UNDER SECTION 253 OF THE GENERAL
CORPORATION LAW OF THE STATE OF DELAWARE**

Agere Systems Inc., a corporation organized and existing under the laws of Delaware ("Corporation"), **DOES HEREBY CERTIFY:**

FIRST: The Corporation is the owner of all of the outstanding shares of common stock of Agere Systems Guardian Corp., which is also a business corporation of the State of Delaware.

SECOND: On August 22, 2002 the Subsidiary Governance Committee of the Board of Directors of the Corporation adopted the following resolution to merge Agere Systems Guardian Corp. into the Corporation:

RESOLVED that Agere Systems Guardian Corp., a Delaware corporation, shall be merged with and into Agere Systems Inc., a Delaware corporation, with Agere Systems Inc. being the surviving corporation, and Agere Systems Inc. shall thereupon assume all of the obligations of Agere Systems Guardian Corp."

THIRD: That the merger authorized hereby shall become effective as of 9:00 a.m. Eastern Standard Time on August 31, 2002.

Executed on August 22, 2002

AGERE SYSTEMS INC.

By Paul Bento
Paul Bento, Vice President



Delaware

PAGE

The First State

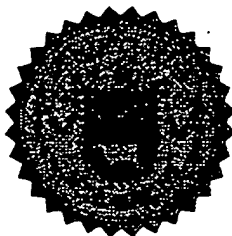
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NOV 25 2002
TECHNOLOGY CENTER

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"AGERE SYSTEMS GUARDIAN CORP.", A DELAWARE CORPORATION,
WITH AND INTO "AGERE SYSTEMS INC." UNDER THE NAME OF "AGERE SYSTEMS INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-NINTH DAY OF AUGUST, A.D. 2002, AT 9 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE THIRTY-FIRST DAY OF AUGUST, A.D. 2002.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Harriet Smith Windsor

Harriet Smith Windsor, Secretary of State

3268412 8100M

AUTHENTICATION: 1959517

020545223

DATE: 08-29-02